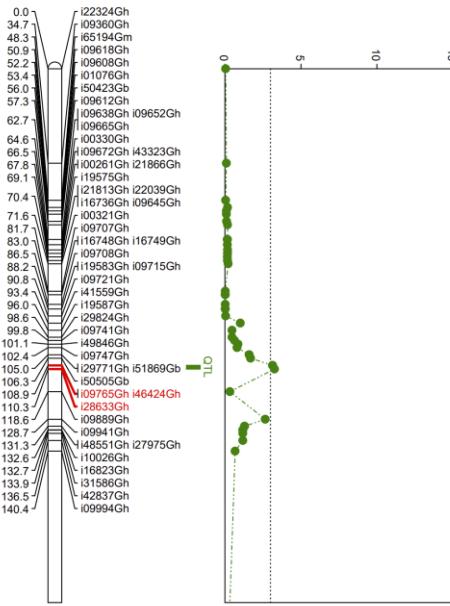
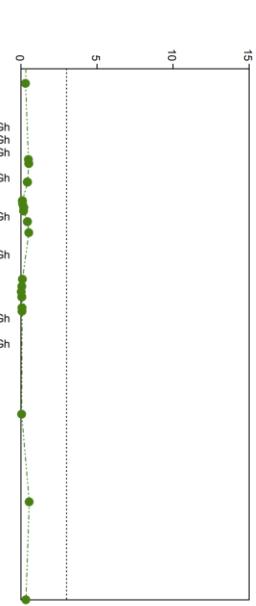


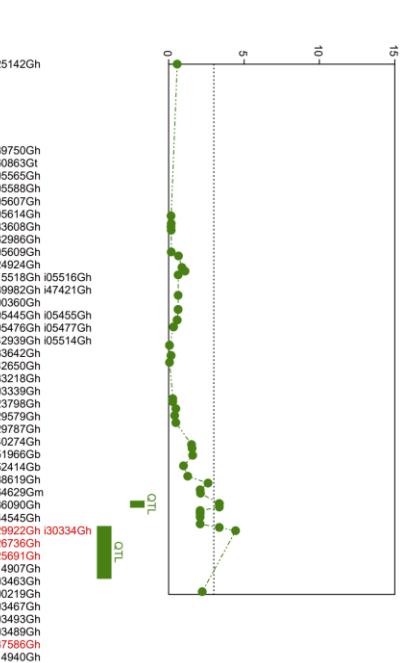
LG7 [1]



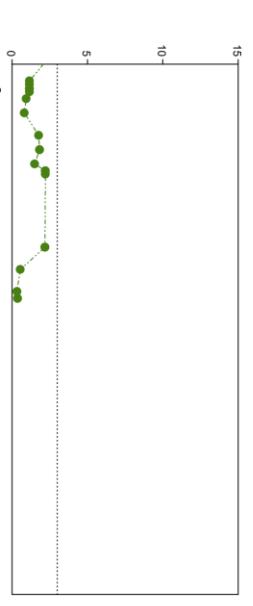
LG7 [2]



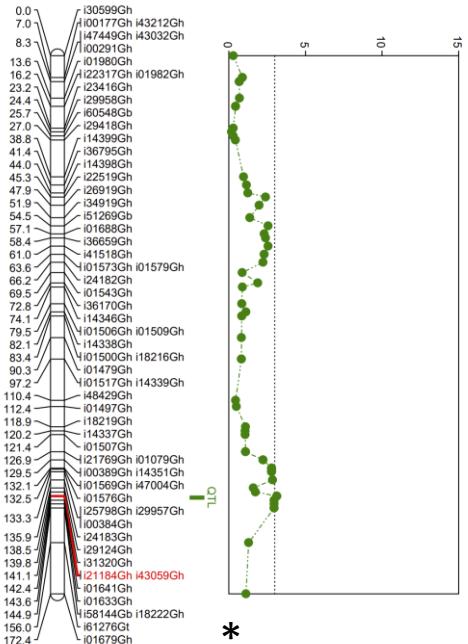
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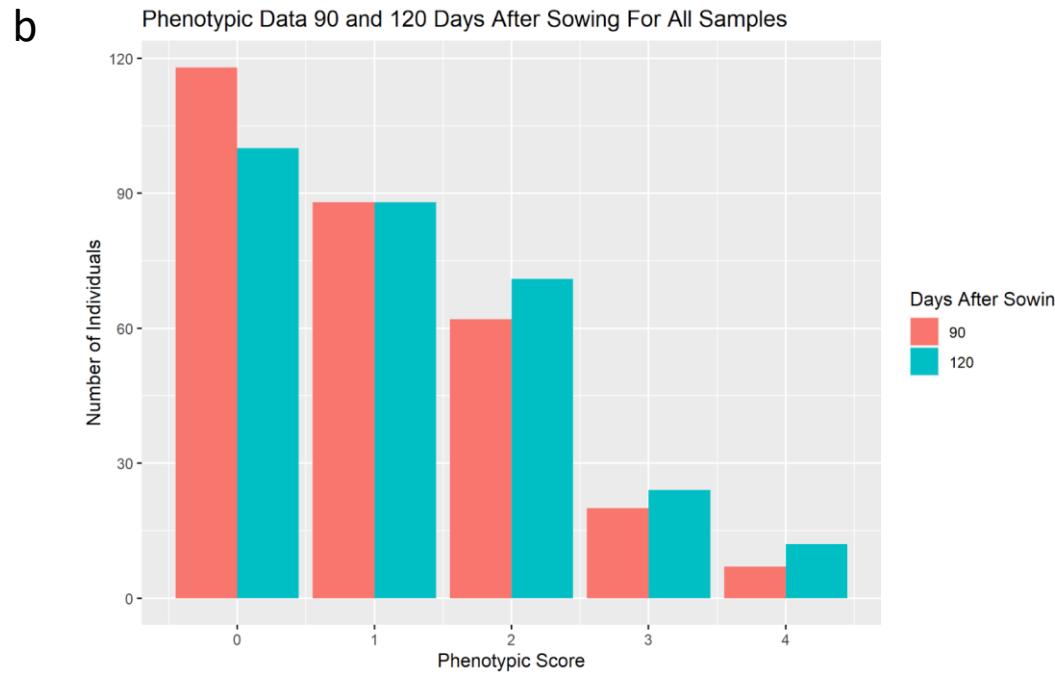
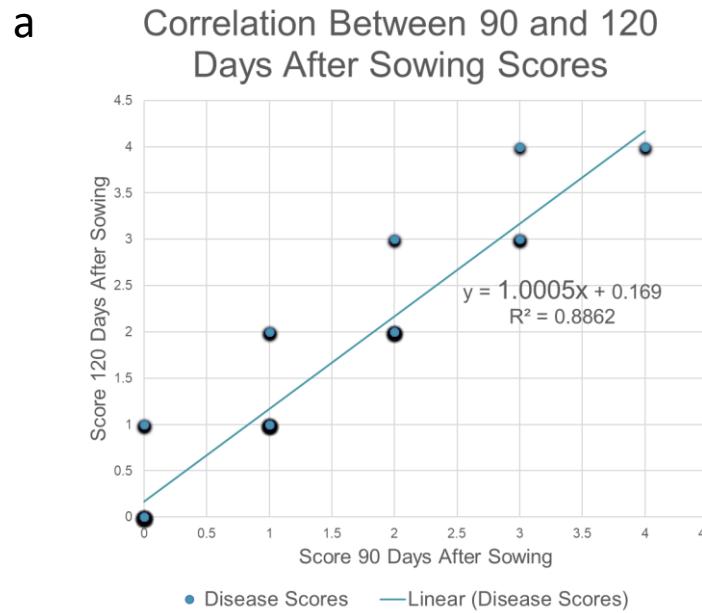


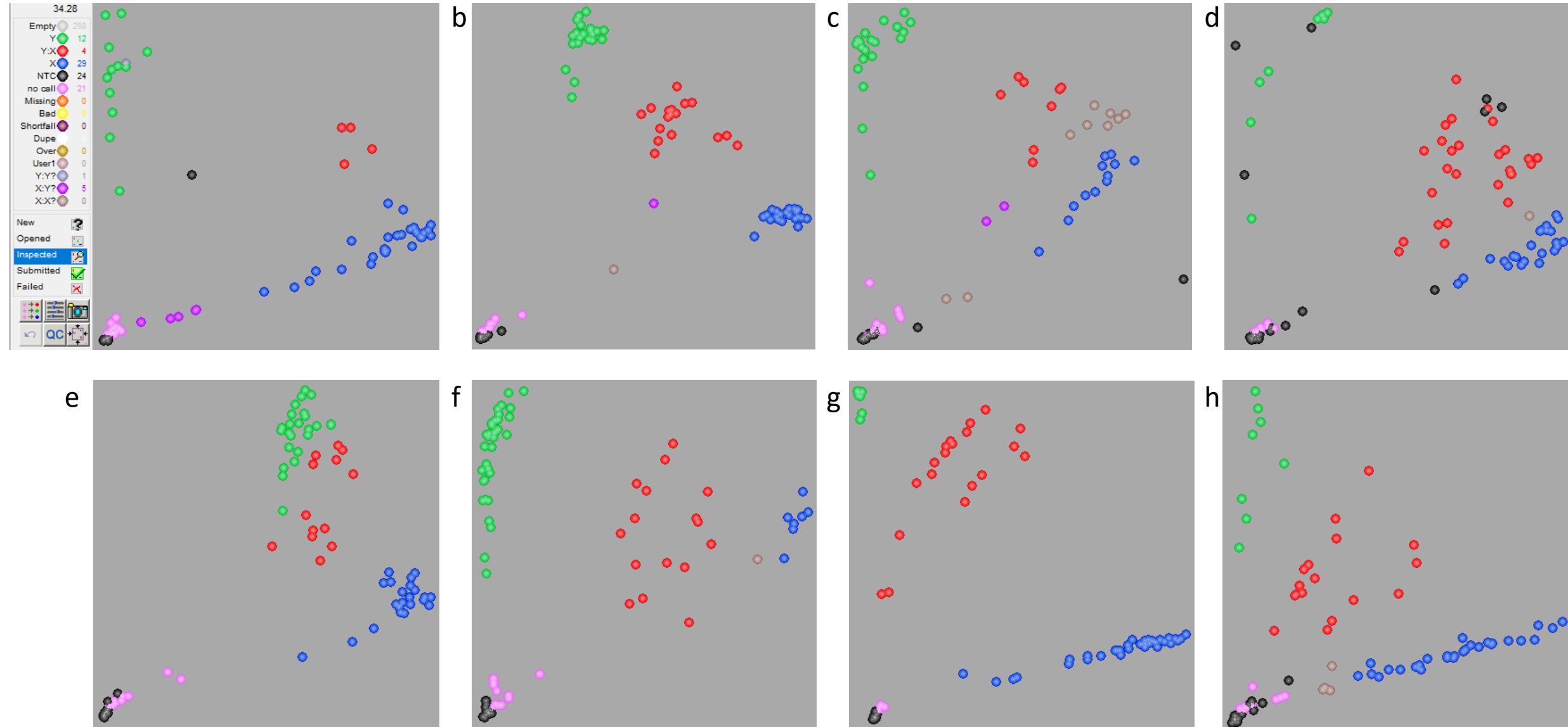
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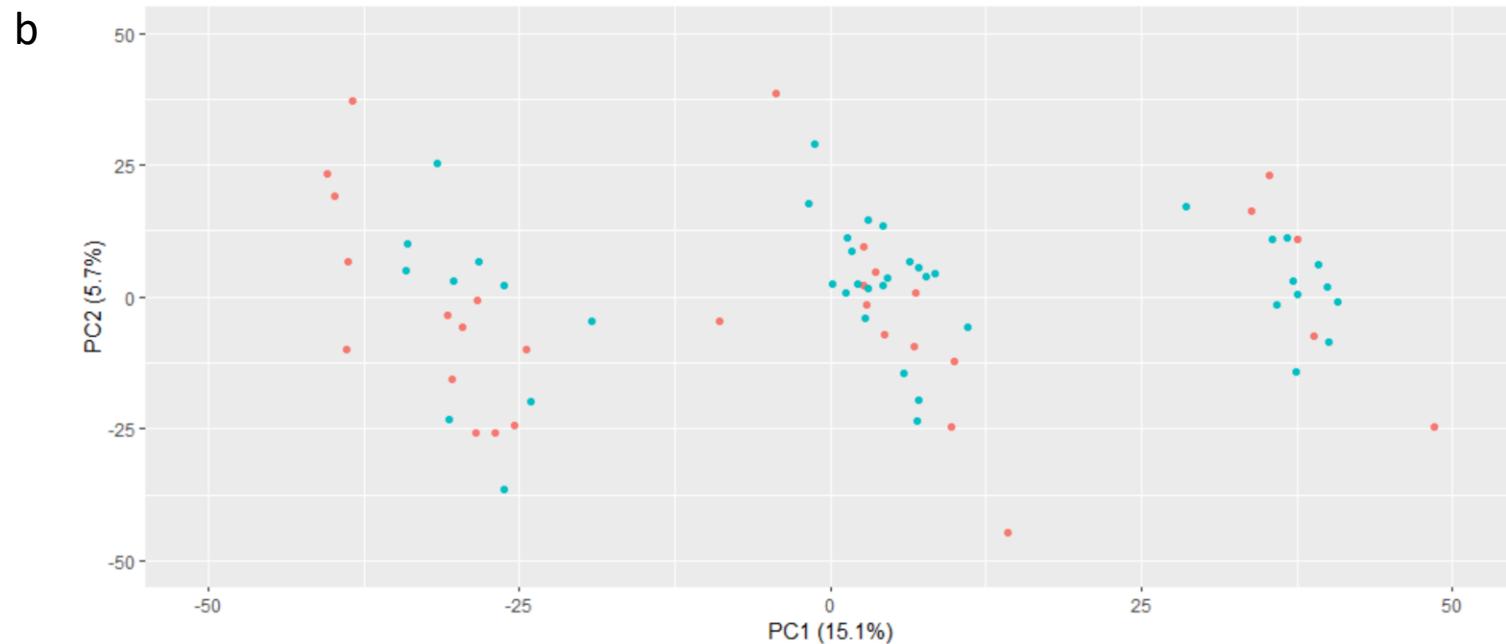
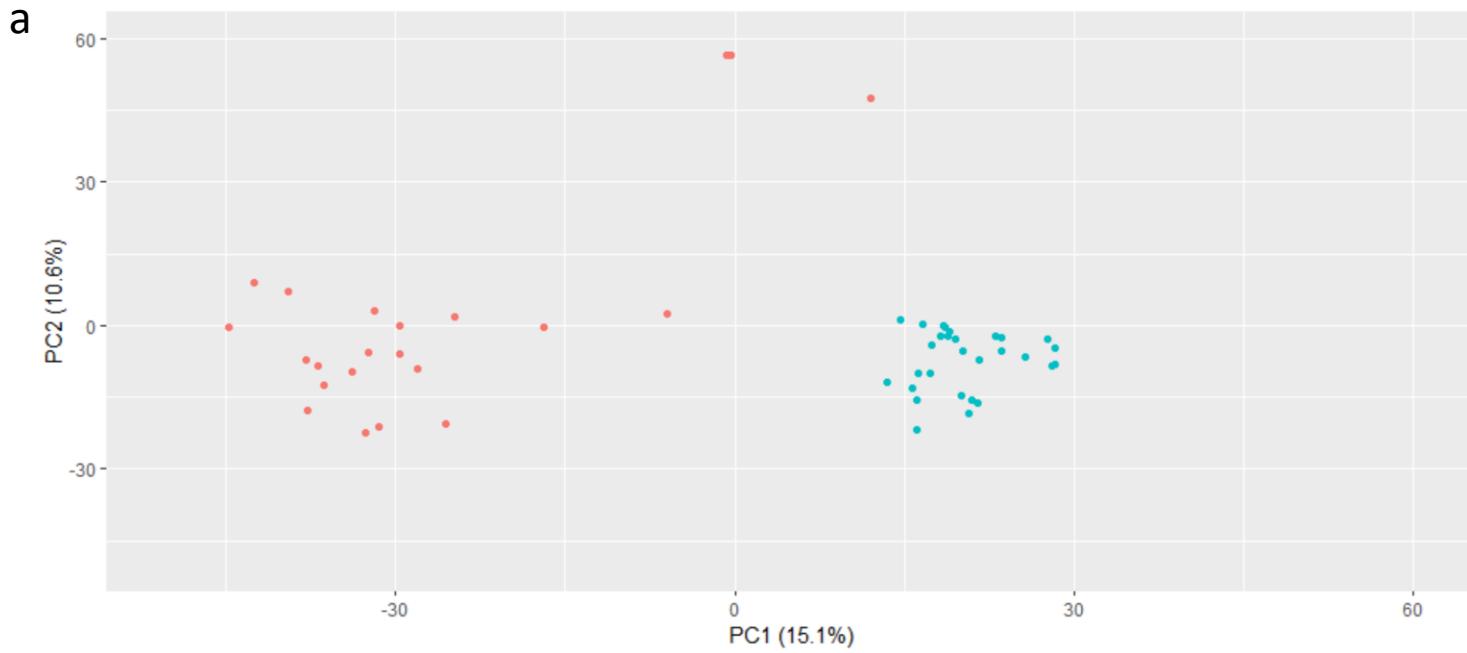


LG24









a**b**

Please give the Maximum Missing Data Level per Sample (see graph) in decimal (ex: 100% is 1) *This default will output all samples, user may change this, but in doing so may reduce the number of samples exported to the .loc file*

1

Please give the Minimum Heterozygosity Level allowed per marker (calculated at the Overall Population Level) in decimal (ex: 5% is 0.05)

0.05

Please give the Maximum Missing Data Level per marker (calculated at the Overall Population Level) in decimal (ex: 10% is 0.1)

0.1

Select designated Sample for Parent A

MB_040

Select designated Sample for Parent B

MB_040

Download JoinMap .Loc Input File (May take a min. Do not click more than once)

Download .Loc File

c

Select designated Sample for Parent A

MB_040

MB_040
MB_048
Mac7 1238 Plt 199-2
Mac7 0238 Field 2012 Plot 0266
Mac7 1238 JS 1270-8 2015 0914 Plt1
MD26ne Plt 199-1
Mac7 0238 Plt 200

(May take a min. Do not click more than once)

Download Markers

Download Graph

Download Graph Data



iCottonQTL

Please cite: Schoonmaker, A. N., Hulse-Kemp, A. M., Youngblood, R. C., Rahmat, M. Z., Iqbal, M. A., Mehboob-ur-Rahman, Kochan, K. J., Scheffler, B. E., & Scheffler, J. A. Detecting Cotton Leaf Curl Virus Resistance Quantitative Trait Loci in *Gossypium hirsutum* and iCottonQTL a New R/Shiny App to Streamline Genetic Mapping in Cotton. Plants. 2023

This application is designed to streamline the downstream pre-processing of cotton genotyping data derived from the Illumina Array technology (CottonSNP63K). For additional details/tutorial on utilizing the application please see the github link

[Simple Steps Github Link](#)

[Extended Steps Github Link](#)

[Generate Input File for JoinMap](#)

[CottonGen Upload Format](#)

Choose CSV File

[Browse...](#) No file selected

Optional: Choose TXT File Containing List of Sample Names

[Browse...](#) No file selected

Please give the unique name for your dataset

TAMU_SNP63K_genotype

Download

Upload Final Report to the server and click download. This app will convert the genomic SNP data to IUPAC nomenclature and output a csv in the format required to submission to CottonGen.

User will need to open the downloaded file to input the species name for each sample under the 'species' column.

A	B	C	D	E	F	G	H
dataset_name	stock_name	genus	species	i00002Gh	i00003Gh	i00004Gh	i00005Gh
test_dataset	MB_040	Gossypium	T	C	T	G	
test_dataset	MB_048	Gossypium	T	C	T	-	
test_dataset	Mac7 1238 Plt 199-2	Gossypium	T	C	T	-	
test_dataset	Mac7 0238 Field 2012 Plot 0266	Gossypium	T	C	T	-	
test_dataset	Mac7 1238 JS 1270-8 2015 0914 Plt1	Gossypium	T	C	T	-	
test_dataset	MD26ne Plt 199-1	Gossypium	T	C	T	G	
test_dataset	Mac7 0238 Plt 200	Gossypium	T	C	T	G	
test_dataset	Mac7 1238 Plt 201	Gossypium	T	C	T	-	
test_dataset	Mac7 0238 JS 1272-8, 2015 Plot 2221 Plt2	Gossypium	T	C	T	-	
test_dataset	TX 1145 Plt 204	Gossypium	T	C	T	-	
test_dataset	TX1214 Plt 202	Gossypium	T	C	T	-	
13							
14							

Please email the completed file to: jing.yu@wsu.edu

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